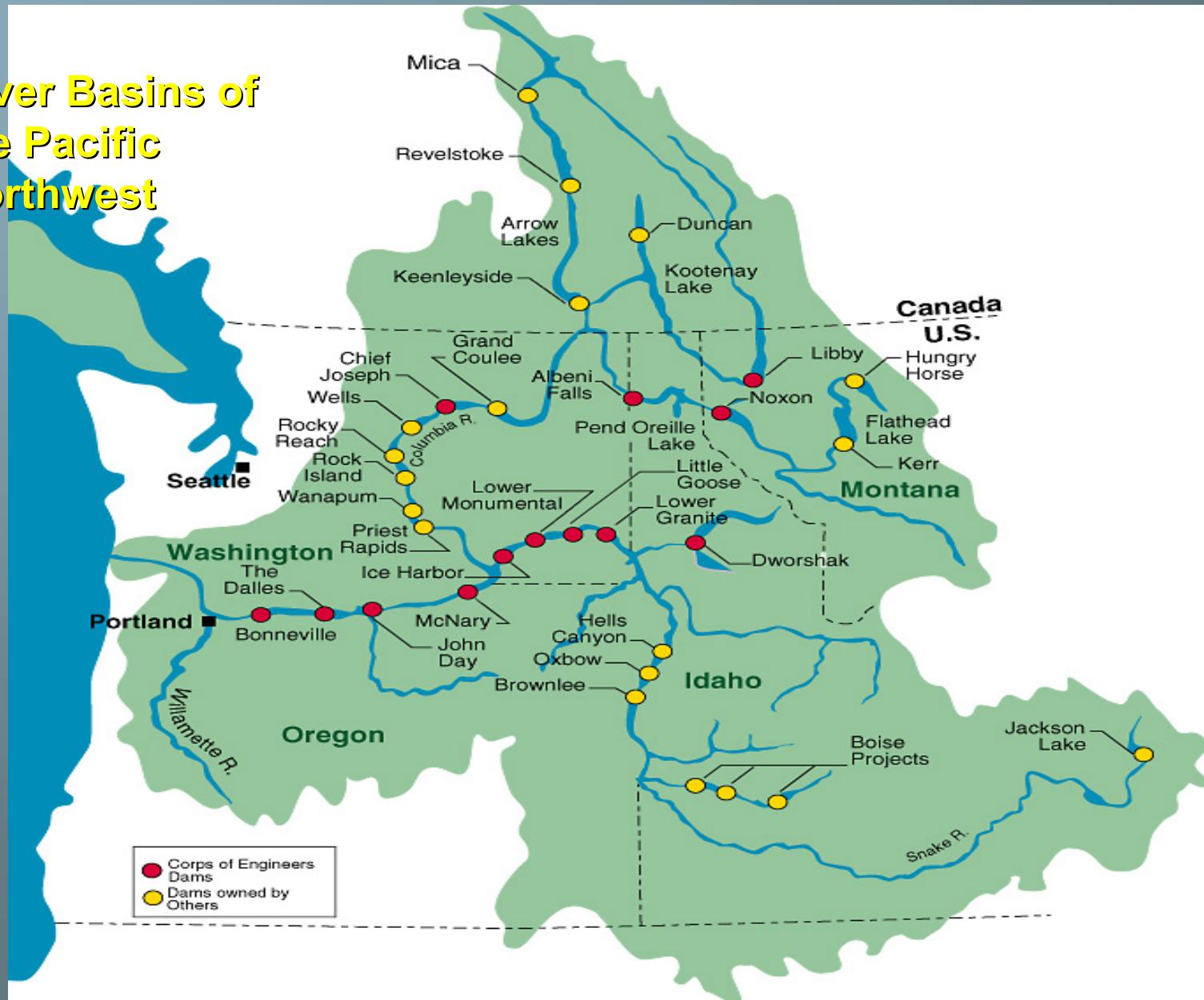


**POWER  
BRANCH**

# River Basins of the Pacific Northwest



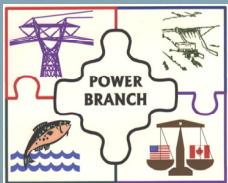
# **Power Branch**

## **MAJOR RESPONSIBILITIES**

- Main functional element for hydropower operational planning for Corps reservoirs in the North Pacific Region (13,000 MW out of 21,000 MW national total).
- Develop annual hydro operating plans of Corps and Treaty projects
- Coordinate regional power planning studies for optimum Columbia River System regulation
- Support Corps-BPA Joint Operating Committee on hydropower rehabilitation
- Conduct/review hydropower studies for the Corps (regional, national, international).

# **Power Branch**

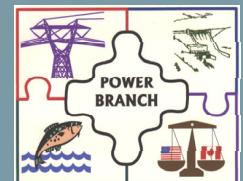
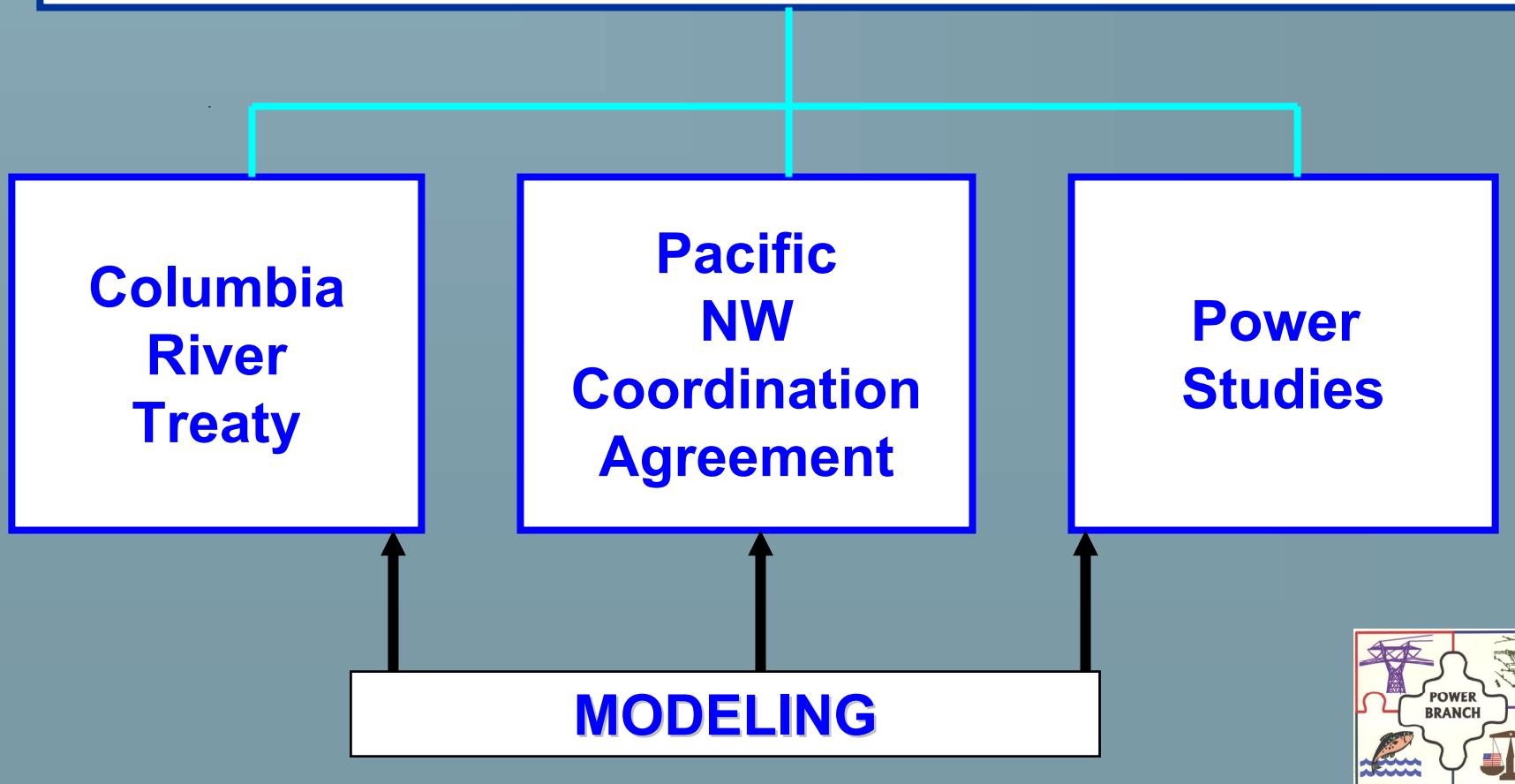
# **STAFF COMPOSITION**



**OPERATIONAL PLANNING**

**HYDROPOWER ANALYSIS  
CENTER**

# **OPERATIONAL PLANNING UNIT**



# COLUMBIA RIVER TREATY

## INTERPRET/IMPLEMENT

- Principles & Procedures
- Entity Agreements

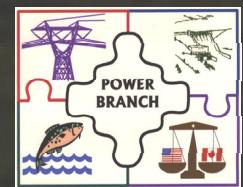
## COORDINATE ANNUAL PLANNING

- Assured Operating Plan
- Determination of Downstream Power Benefits
- Detailed Operating Plan
- Support to CRT Operating Committee



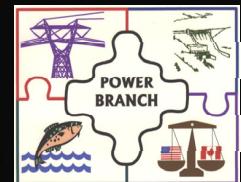
# PACIFIC NW COORDINATION AGREEMENT

- Coordination / Implementation / Rights & Obligations
- Planning (Data submittal / Actual Energy Regulations / Refill Studies)
- Operation



# HYDROREGULATION PLANNING

- Reconnaissance & Feasibility, PAC
  - Drawdown: Lower Snake River Feasibility; JDA
- Reconnaissance**
- Libby Variable Q
  - NEPA and ESA: Willamette Steelhead, White Sturgeon, Bull Trout, Salmon BiOp '95, '98
  - BON Min. Gap Runner, TDA Major Rehab, Cougar/Blue River
  - Regional Power Planning





# HYDROPOWER ANALYSIS CENTER OF EXPERTISE

## HDC Support

- Major Rehab
- Turbine Rewind

## Work for Others

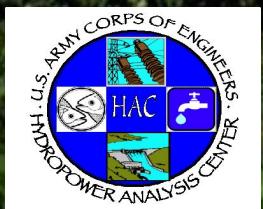
- Power values
- Cost Allocation
- System Studies
- Other Studies

## Special Activities

- Procedures
- Hydro Manual
- PEBCOM
- FERC Review
- COE/BPA JOC
- Overseas

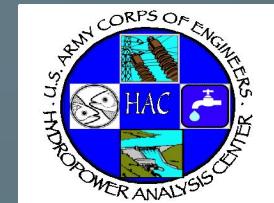
# HYDROPOWER EVALUATION

- Power Values
- Cost (Re)-Allocation
- FERC (Re)-Licensing
- Pumped Storage Studies
- PowerPlant Rehabilitation
- Major River System Studies



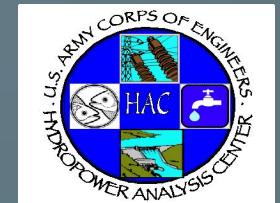
# **HYDROPOWER ANALYSIS CENTER**

- Kerr Supplemental      McNary Rehab
- HYSSR/HALLO            FERC
- Kainji Dam, Nigeria    Center Hill
- Old Hickory              Fort Randall
- Narrows Rewind          Missouri Res.Reg.Man.
- Hydro Manual            Arkansas River
- PEBCOM                   COE-BPA JOC



# ASSISTANCE SERVICES

- TO DISTRICTS: *Willamette BiOp; Cougar Selective Withdrawal; Upper Baker; GCL-CHJ Power Transfer; Lower Granite Operation Review; Major Rehab Workshop*
- TO COE-BPA JOC : “*Barton Report*”& *Workshop; Liquidated Damage Policy; JOC & Sub-Committee Activities ; website; Self-Assessment*
- TO HQ: *Field Review Activities (CW O&M); Nonfederal Hydro Development Identification; Hydropower Brochure; Overseas*



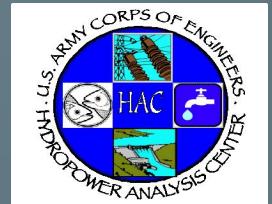
# Planning Unit Outlook

- Need top-notch regulators + stable staff to reassert as premier modelers in PNW; participate at every study level; & have all studies completed on time and fully checked.
- Need to adequately train and retain staff
- *The Corps needs to accomplish its mission and fulfill its CRT and PNCA responsibilities.*



# Hydropower Analysis Center Outlook

- Must be Self-supporting.
- New trends: Rehab, International
- Reduced O&M funding
- Increased PMA funding Roles





*The End*